## In the Specification:

Please enter the Sequence Listing filed herewith.

Applicant presents replacement paragraphs below indicating the changes with insertions indicated by underlining and deletions indicated by strikeouts and/or double bracketing.

Please add the following section as the first section of the specification following the title.

## **Related Applications**

This application is a national stage filing under 35 U.S.C. § 371 of PCT International application PCT/GB03/00030, filed January 7, 2003, which was published under PCT Article 21(2) in English.

On page 1, please add the following heading after the newly inserted Related Applications Section:

## Field of the Invention

On page 1, line 7, please add the following heading:

Background of the Invention

On page 1, line 23, please insert the heading:

Summary of the Invention

On page 1, line 32, please insert the heading:

Description of the Preferred Embodiments

Please amend the paragraph that begins on page 5, line 1, as follows:

Oligonucleotides for use as NASBA P1 primers have the general structure "X<sub>1</sub>-SEQ", wherein "X<sub>1</sub>" represents a nucleotide sequence comprising a promoter and "SEQ" represents the HPV-specific sequence, as given in Table 1. The inclusion of a promoter sequence is essential in NASBA P1 primers but is not necessary in PCR primers, as discussed below. In a preferred embodiment, X<sub>1</sub> may be a sequence comprising a bacteriophage promoter, preferably the T7 promoter. In the most preferred embodiment, X<sub>1</sub> represents the sequence AATTCTAATACGACTCACTATAGGGAGAAGG (SEQ ID NO:385).

Please amend the paragraph that begins on page 8, line 16, as follows:

The first type of oligonucleotides are primer 1 oligonucleotides (also referred to herein as NASBA P1 primers), which are oligonucleotides of generally approximately 50 bases in length, containing an average of about 20 bases at the 3' end that are complementary to a region of the target mRNA. Oligonucleotides suitable for use as NASBA P1 primers are denoted "NASBA P1/PCR" in Table 1. The 5' ends of the P1 primer oligonucleotides (represented herein in general terms as X<sub>1</sub>) comprise a promoter sequence that is recognized by a specific RNA polymerase. Bacteriophage promoters, for example the T7, T3 and SP6 promoters, are preferred for use in the oligonucleotides of the invention, since they provide advantages of high level transcription which is dependent only on binding of the appropriate RNA polymerase. In a preferred embodiment, the 5' terminal sequence of the P1 primer oligonucleotides may comprise the sequence AATTCTAATACGACTCACTATAGGG (SEQ ID NO:386) or the sequence AATTCTAATACGACTCACTATAGGGAGAAGG (SEQ ID NO:385). These sequences contains a T7 promoter, including the transcription initiation site for T7 RNA polymerase.

Please amend the paragraph that begins on page 10, line 2, as follows:

Oligonucleotides intended for use as NASBA P2 primers may, in a particular but non-limiting embodiment, further comprise a sequence of nucleotides at the 5' end which is unrelated to the target mRNA but which is capable of hybridising to a generic detection probe. The detection probe will preferably be labelled, for example with a fluorescent, luminescent or enzymatic label. In one embodiment the detection probe is labelled with a label that permits detection using ECL<sup>TM</sup> technology, although it will be appreciated that the invention is in no way limited to this particular method of detection. In a preferred embodiment the 5' end of the primer 2 oligonucleotides may comprise the sequence GATGCAAGGTCGCATATGAG (SEQ ID NO:387). This sequence is capable of hybridising to a generic ECL<sup>TM</sup> probe commercially available from Organon Teknika having the following structure:

Ru(bpy)<sub>3</sub><sup>2+</sup>-GAT GCA AGG TCG CAT ATG AG-3' (SEQ ID NO:387)

Please amend the paragraph that begins on page 14, line 21, as follows:

Many examples of suitable pairs of quencher/fluorescer moieties which may be used in accordance with the invention are known in the art (see WO 95/13399, Tyagi and Kramer, ibid). A broad range of fluorophores in many different colours made be used, including for example 5-(2'-aminoethyl)aminonaphthalene-1-sulphonic acid (EDANS), fluorescein, FAM and Texas Red (see Tyagi, Bratu and Kramer, 1998, Nature Biotechnology, 16, 49-53. The use of probes labelled with different coloured fluorophores enables "multiplex" detection of two or more different probes in a single reaction vessel. A preferred quencher is 4-(4'-dimethylaminophenylazo)benzoic acid (DABCYL), a non-fluorescent chromophore, which serves as a 'universal' quencher for a wide range of fluorophores. The fluorescer and quencher moieties may be covalently attached to the probe in either orientation, either with the fluorescer at or near the 5' end and the quencher at or near the 3' end or vice versa. Protocols for the synthesis of molecular beacon probes are known in the art. A detailed protocol for synthesis is provided in a paper entitled "Molecular Beacons: Hybridization Probes for Detection of Nucleic Acids in Homogenous Solutions" by Sanjay Tyagi et al., Department of Molecular Genetics,

Public Health Research Institute, 455 First Avenue, New York, NY 10016, USA, which is available online via the PHRI website (at www.phri.nyu.edu or www.molecular-beacons.org).

Please amend the paragraph that begins on page 17, line 9, as follows:

The NASBA P2 primers (p2)in Table 2 include the sequence
GATGCAAGGTCGCATATGAG (SEQ ID NO:387) at the 5' end; the NASBA P1 primers (p1)
in Table 2 include the sequence AATTCTAATACGACTCACTATAGGGAGAAGG (SEQ ID
NO:385) at the 5' end. Oligonucleotides suitable for use as probes are identified by "po". The
P2 primers generally contain HPV sequences from the postive strand, whereas the p1 primers
generally contain HPV sequences from the negative strand. nt-refers to nucleotide position in
the relevant HPV genomic sequence.

Please amend Table 2, beginning on page 17, to add a column containing sequence identifiers (SEQ ID NOs) for the primer sequences, as follows:

Primer	Sequence	SEQ ID	HPV	nt
name		<u>NO</u>	Туре	
HAe6701p2	GATGCAAGGTCGCATATGAGCCACAGGAGCGACCC AGAAAGTTA	134	16	116
HAe6701p1	AATTCTAATACGACTCACTATAGGGAGAAGGACGG TTTGTTGTATTGCTGTTC	135	16	368
HAe6702p2	GATGCAAGGTCGCATATGAGCCACAGGAGCGACCC AGAAA	136	16	116
HAe6702p1	AATTCTAATACGACTCACTATAGGGAGAAGGGGTT TGTTGTATTGCTGTTC	137	16	368
HAe6702Ap1	AATTCTAATACGACTCACTATAGGGAGAAGGTCA CGTCGCAGTAACTGT	138	16	208
HAe6702Bp1	AATTCTAATACGACTCACTATAGGGAGAAGGTTG CTTGCAGTACACACA	139	16	191
HAe6702Cp1	AATTCTAATACGACTCACTATAGGGAGAAGGTGC AGTACACATTCTA	140	16	186
HAe6702Dp1	AATTCTAATACGACTCACTATAGGGAGAAGGGCA GTACACACATTCTAA	141	16	185
H16e6702Ap 2	GATGCAAGGTCGCATATGAGACAGTTATGCACAGA GCT	142	16	142
H16e6702Bp 2	GATGCAAGGTCGCATATGAGATATTAGAATGTGTG TAC	143	16	182

H16e6702Cp 2	GATGCAAGGTCGCATATGAGTTAGAATGTGTGTAC TGC	144	16	185
H16e6702Dp 2	GATGCAAGGTCGCATATGAGGAATGTGTGTACTGC AAG	145	16	188
H16e6702Ap o	ACAGTTATGCACAGAGCT	146	16	142
H16e6702Bp	ATATTAGAATGTGTGTAC	147	16	182
H16e6702Cp o	TTAGAATGTGTGCTCC	148	16	185
H16e6702Dp o	GAATGTGTACTGCAAG	149	16	188
HAe6701po	CTTTGCTTTTCGGGATTTATGC	150	16	235
HAe6702po	TATGACTTTGCTTTTCGGGA	151	16	230
HAe6702mb1	$X_2$ -cgcatgTATGACTTTGCTTTTCGGGAcatgcg $-X_3$	152	16	230
HAe6702mb2	X <sub>2</sub> -ccagctTATGACTTTGCTTTTCGGGAagctgg -X <sub>3</sub>	153	16	230
HAe6702mb3	$X_2$ -cacgcTATGACTTTGCTTTTCGGGAgcgtg $-X_3$	154	16	230
H16e6702mb	X <sub>2</sub> -cgatcgTATGACTTTGCTTTTCGGGAcgatcg -X <sub>3</sub>	155	16	230
HAe6703p2	GATGCAAGGTCGCATATGAGCAGAGGAGGAGGATG AAATAGTA	156	16	656
HAe6703p1	AATTCTAATACGACTCACTATAGGGAGAAGGGCAC AACCGAAGCGTAGAGTCACAC	157	16	741
HAe6703po	TGGACAAGCAGAACCGGACAGAGC	158	16	687
HAe6704p2	GATGCAAGGTCGCATATGAGCAGAGGAGGATG AAATAGA	159	16	656
HAe6704p1	AATTCTAATACGACTCACTATAGGGAGAAGGGCAC AACCGAAGCGTAGAGTCA	160	16	741
HAe6704po	AGCAGAACCGGACAGAGCCCATTA	161	16	693
H18e6701p2	GATGCAAGGTCGCATATGAGACGATGAAATAGATG GAGTT	162	18	702
H18e6701p1	AATTCTAATACGACTCACTATAGGGAGAAGGCACG GACACAAAGGACAG	163	18	869
H18e6701po	AGCCGAACCACACGTCACA	164	18	748
H18e6702p2	GATGCAAGGTCGCATATGAGGAAAACGATGAAATA GATGGAG	165	18	698
H18e6702p1	AATTCTAATACGACTCACTATAGGGAGAAGGACAC CACGGACACAAAGGACAG	166	18	869
H18e6702po	GAACCACAACGTCACACAATG	<u>167</u>	18	752
H18e6702mb 1	$X_2$ - cgcatgGAACCACAACGTCACACAATGcatgcg $-X_3$	168	18	752
H18e6702mb 2	X <sub>2</sub> - ccgtcgGAACCACAACGTCACACAATGcgacgg -X <sub>3</sub>	169	18	752
H18e6702mb	X <sub>2</sub> -	170	18	752
3	cggaccGAACCACAACGTCACACAATGggtccg			

	-X <sub>3</sub>			
H18e6702mb	X <sub>2</sub> -	171	18	752
4	cgatcgGAACCACAACGTCACACAATGcgatcg			
	-X <sub>3</sub>	170		
H18e6703p2	GATGCAAGGTCGCATATGAGTTCCGGTTGACCTTC TATGT	172	18	651
H18e6703p1	AATTCTAATACGACTCACTATAGGGAGAAGGGGTC GTCTGCTGAGCTTTCT	173	18	817
H18e6704p2	GATGCAAGGTCGCATATGAGGCAAGACATAGAAAT AACCTG	174	18	179
H18e6704p1	AATTCTAATACGACTCACTATAGGGAGAAGGACCC AGTGTTAGTTAGTT	175	18	379
H18e6704po	TGCAAGACAGTATTGGAACT	176	18	207
H31e6701p2	GATGCAAGGTCGCATATGAGGGAAATACCCTACGA TGAAC	177	31	164
H31e6701p1	AATTCTAATACGACTCACTATAGGGAGAAGGGGAC ACAACGGTCTTTGACA	178	31	423
H31e6701po	ATAGGGACGACACACACGGAG	179	31	268
H31e6702p2	GATGCAAGGTCGCATATGAGGGAAATACCCTACGA	180	31	164
	TGAACTA			
H31e6702p1	AATTCTAATACGACTCACTATAGGGAGAAGGCTGG ACACAACGGTCTTTGACA	181	31	423
H31e6702po	TAGGGACGACACCACAGGA	182	31	269
H31e6703p2	GATGCAAGGTCGCATATGAGACTGACCTCCACTGT TATGA	183	31	617
H31e6703p1	AATTCTAATACGACTCACTATAGGGAGAAGGTATC TACTTGTGTGCTCTGT	184	31	766
H31e6703po	GACAAGCAGAACCGGACACATC	185	31	687
H31e6704p2	GATGCAAGGTCGCATATGAGTGACCTCCACTGTTA TGAGCAATT	186	31	619
H31e6704p1	AATTCTAATACGACTCACTATAGGGAGAAGGTGCG AATATCTACTTGTGTGCTCT GT	187	31	766
H31e6704po	GGACAAGCAGAACCGGACACATCCAA	188	31	686
H31e6704mb	X <sub>2</sub> -ccgaaggGACAAGCAGAACCGGACACATCC	189	31	686
1	AAccttcgg -X <sub>3</sub>			
H31e6704mb	X <sub>2</sub> -ccgtcgGGACAAGCAGAACCGGACACATCCA Acgacgg -X <sub>3</sub>	190	31	686
H31e6704mb	X <sub>2</sub> - cacgtcgGGACAAGCAGAACCGGACACATCCAA cgacgtg -X <sub>3</sub>	191	31	686
H31e6704mb	X <sub>2</sub> -cgcagcGACAAGCAGAACCGGACACATCCAA gctgcg -X <sub>3</sub>	192	31	686
H31e6704mb	1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	102	21	600
5	X <sub>2</sub> -cgatcgGGACAAGCAGAACCGGACACATCCAA cgatcg -X <sub>3</sub>	193	31	686
H31e6705p2	GATGCAAGGTCGCATATGAGACTGACCTCCACTGT TAT	194	31	617
H31e6705p1	AATTCTAATACGACTCACTATAGGGAGAAGGCACG ATTCCAAATGAGCCCAT	195	31	809
H33e6701p2	GATGCAAGGTCGCATATGAGTATCCTGAACCAACT GACCTAT	196	33	618
H33e6701p1	AATTCTAATACGACTCACTATAGGGAGAAGGTTGA	197	33	763

	CACATAAACGAACTG			
H33e6701po	CAGATGGACAAGCACAACC	198	33	694
H33e6703p2	GATGCAAGGTCGCATATGAGTCCTGAACCAACTGA CCTAT	199	33	620
H33e6703p1	AATTCTAATACGACTCACTATAGGGAGAAGGCCCA TAAGTAGTTGCTGTAT	200	33	807
H33e6703po	GGACAAGCACCAGCCACAGC	201	33	699
H33e6703mb	X2-ccaagcGGACAAGCACAACCAGCCACAGCgct	202	33	699
1	tgg -X <sub>3</sub>			
H33e6703mb	X2-ccaagcgGACAAGCACAACCAGCCACAGC	203	33	699
2	cgcttgg -X <sub>3</sub>			
H33e6703mb	X2-cccagcGGACAAGCACAACCAGCCACAGCgct	204	33	699
3	ggg -X <sub>3</sub>			
H33e6703mb 4	X₂-ccaaagcGGACAAGCACCAGCCACAGCg ctttgg -X₃	205	33	699
H33e6703mb 5	X <sub>2</sub> - cctgcGGACAAGCACAACCAGCCACAGCgcagg	206	33	699
	-X <sub>3</sub>			
H33e6703mb	X <sub>2</sub> -cgatcgGGACAAGCACAACCAGCCACAGCcga	207	33	699
	tcg -X <sub>3</sub>	1		
H33e6702p2	GATGCAAGGTCGCATATGAGGACCTTTGTGTCCTC AAGAA	208	33	431
H33e6702p1	AATTCTAATACGACTCACTATAGGGAGAAGGAGGT CAGTTGGTTCAGGATA	209	33	618
H33e6702po	AGAAACTGCACTGTGACGTGT	210	33	543
H35e6701p2	GATGCAAGGTCGCATATGAGATTACAGCGGAGTGA GGTAT	211	35	217
H35e6701p1	AATTCTAATACGACTCACTATAGGGAGAAGGGTCT TTGCTTTTCAACTGGA	212	35	442
H35e5601po	ATAGAGAAGGCCAGCCATAT.	213	35	270
H35e6702p2	GATGCAAGGTCGCATATGAGTCAGAGGAGGAGGAA GATACTA	214	35	655
H35e6702p1	AATTCTAATACGACTCACTATAGGGAGAAGGGATT ATGCTCTCTGTGAACA	215	35	844
H35e6703p2	GATGCAAGGTCGCATATGAGCCCGAGGCAACTGAC CTATA	216	35	610
H35e6703p1	AATTCTAATACGACTCACTATAGGGAGAAGGGTCA ATGTGTGTGCTCTGTA	217	35	770
H35e6702po	GACAAGCAAAACCAGACACCTCCAA	218	35	692
H35e6703po	GACAAGCAAAACCAGACACC	219	35	692
H52e6701p2	GATGCAAGGTCGCATATGAGTTGTGTGAGGTGCTG GAAGAAT	220	52	144
H52e6701p1	AATTCTAATACGACTCACTATAGGGAGAAGGCCCT CTCTTCTAATGTTT	221	52	358
H52e6701po	GTGCCTACGCTTTTTATCTA	222	52	296
H52e6702p2	GATGCAAGGTCGCATATGAGGTGCCTACGCTTTTT ATCTA	223	52	296
H52e6702p1	AATTCTAATACGACTCACTATAGGGAGAAGGGGGG TCTCCAACACTCTGAACA	224	52	507
H52e6702po	TGCAAACAAGCGATTTCA	225	52	461
H58e6701p2	GATGCAAGGTCGCATATGAGTCAGGCGTTGGAGAC	226	58	157

-	ATC	T		<del></del>
H58e6701p1	AATTCTAATACGACTCACTATAGGGAGAAGGAGCA ATCGTAAGCACACT	227	58	301
H58e6702p2	GATGCAAGGTCGCATATGAGTCTGTGCATGAAATC GAA	228	58	173
H58e6702p1	AATTCTAATACGACTCACTATAGGGAGAAGGAGCA CACTTTACATACTG	229	58	291
H58e6701po	TGAAATGCGTTGAATGCA	230	58	192
H58e6702po	TTGCAGCGATCTGAGGTATATG	231	58	218
HBe6701p2	GATGCAAGGTCGCATATGAGTACACTGCTGGACAA CAT	232	B(11)	514
HBe6701p1	AATTCTAATACGACTCACTATAGGGAGAAGGTCAT CTTCTGAGCTGTCT	233	B(11)	619
HBe6702p2	GATGCAAGGTCGCATATGAGTACACTGCTGGACAA CATGCA	234	B(11)	514
HBe6702p1	AATTCTAATACGACTCACTATAGGGAGAAGGGTCA CATCCACAGCAACAGGTCA	235	B(11)	693
HBe6701po	GTAGGGTTACATTGCTATGA	236	B(11)	590
HBe6702po	GTAGGGTTACATTGCTATGAGC	237	B(11)	590
HBe6703p2	GATGCAAGGTCGCATATGAGTGACCTGTTGCTGTG GATGTGA	238	B(11)	693
HBe6703p1	AATTCTAATACGACTCACTATAGGGAGAAGGTACC TGAATCGTCCGCCAT	239	B(11)	832
HBe6703po	ATWGTGTGTCCCATCTGC	240	B(11)	794
HCe6701p2	GATGCAAGGTCGCATATGAGCATGCCATAAATGTA TAGA	241	C(18 39 45)	295
HCe6701p1	AATTCTAATACGACTCACTATAGGGAGAAGGCACC GCAGGCACCTTATTAA	242	C(18 39 45	408
HCe6701po	AGAATTAGAGAATTAAGA	243	C(18 39 45	324
H39e6701p2	GATGCAAGGTCGCATATGAGGCAGACGACCACTAC AGCAAA	244	39	210
H39e6701p1	AATTCTAATACGACTCACTATAGGGAGAAGGACAC CGAGTCCGAGTAATA	245	39	344
H39e6701po	ATAGGGACGGGAACCACT	246	39	273
H39e6702p2	GATGCAAGGTCGCATATGAGTATTACTCGGACTCG GTGT	247	39	344
H39e6702p1	AATTCTAATACGACTCACTATAGGGAGAAGGCTTG GGTTTCTCTTCGTGTTA	248	39	558
H39e6702po	GGACCACAAAACGGGAGGAC	249	39	531
H39e6703p2	GATGCAAGGTCGCATATGAGGAAATAGATGAACCC GACCA	250	39	703
H39e6703p1	AATTCTAATACGACTCACTATAGGGAGAAGGGCAC ACCACGGACACAAA	251	39	886
H39e6703po	TAGCCAGACGGGATGAACCACAGC	252	39	749
H45e6701p2	GATGCAAGGTCGCATATGAGAACCATTGAACCCAG CAGAAA	253	45	430
H45e6701p1	AATTCTAATACGACTCACTATAGGGAGAAGGTCTT TCTTGCCGTGCCTGGTCA	254	45	527
H45e6702p2	GATGCAAGGTCGCATATGAGGAAACCATTGAACCC AGCAGAAAA	255	45	428

H45e6702p1	AATTCTAATACGACTCACTATAGGGAGAAGGTTGC TATACTTGTGTTTCCCTACG	256	45	558
H45e6701po	GTACCGAGGGCAGTGTAATA	257	45	500
H45e6702po	GGACAAACGAAGATTTCACA	258	45	467
H45e6703p2	GATGCAAGGTCGCATATGAGGTTGACCTGTTGTGT TACCAGCAAT	259	45	656
H45e6703p1	AATTCTAATACGACTCACTATAGGGAGAAGGCACC ACGGACACACAAAGGACAAG	260	45	868
H45e6704p2	GATGCAAGGTCGCATATGAGCTGTTGACCTGTTGT GTTACGA	261	45	654
H45e6704p1	AATTCTAATACGACTCACTATAGGGAGAAGGCCAC GGACACAAAGGACAAG	262	45	868
H45e6705p2	GATGCAAGGTCGCATATGAGGTTGACCTGTTGTGT TACGA	263	45	656
H45e6705p1	AATTCTAATACGACTCACTATAGGGAGAAGGACGG ACACAAAAGGACAAG	264	45	868
H45e6703po	GAGTCAGAGGAGGAAAACGATG	265	45	686
H45e6704po	AGGAAAACGATGAAGCAGATGGAGT	266	45	696
H45e6705po	ACAACTACCAGCCCGACGAGCCGAA	267	45	730
H51e6701p2	GATGCAAGGTCGCATATGAGGGAGGAGGATGAAGT AGATA	268	51	658
H51e6701p1	AATTCTAATACGACTCACTATAGGGAGAAGGGCCC ATTAACATCTGCTGTA	269	51	807
H51e6702p2	GATGCAAGGTCGCATATGAGAGAGGAGGAGGATGA AGTAGATA	270	51	655
H51e6702p1	AATTCTAATACGACTCACTATAGGGAGAAGGACGG GCAAACCAGGCTTAGT	271	51	829
H51e6701po	GCAGGTGTTCAAGTGTAGTA	272	51	747
H51e6702po	TGGCAGTGGAAAGCAGTGGAGACA	273	51	771
H56e6701p2	GATGCAAGGTCGCATATGAGTTGGGGTGCTGGAGA CAAACATCT	274	56	519
H56e6701p1	AATTCTAATACGACTCACTATAGGGAGAAGGTTCA TCCTCATCCTCATCCTCTGA	275	56	665
H56e6702p2	GATGCAAGGTCGCATATGAGTGGGGTGCTGGAGAC AAACATC	276	56	520
H56e6702p1	AATTCTAATACGACTCACTATAGGGAGAAGGCATC CTCATCCTCATCCTCTGA	277	56	665
H56e6703p2	GATGCAAGGTCGCATATGAGTTGGGGTGCTGGAGA CAAACAT	278	56	519
H56e6703p1	AATTCTAATACGACTCACTATAGGGAGAAGGCCAC AAACTTACACTCACAACA	279	56	764
H56e6701po	AAAGTACCAACGCTGCAAGACGT	280	56	581
H56e6702po	AGAACTAACACCTCAAACAGAAAT	<u>281</u>	56	610
H56e6703po	AGTACCAACGCTGCAAGACGTT	282	56	583
H56e6703po 1	TTGGACAGCTCAGAGGATGAGG	283	56	656
H56e6704p2	GATGCAAGGTCGCATATGAGGATTTTCCTTATGCA GTGTG	284	56	279
H56e6704p1	AATTCTAATACGACTCACTATAGGGAGAAGGGACA TCTGTAGCACCTTATT	285	56	410
H56e6704po	GACTATTCAGTGTATGGAGC	286	56	348

HPVAPO1A	CAACTGAYCTMYACTGTTATGA	287	A (16
			31 35)
HPVApo1Amb	X <sub>2</sub> -	288	A (16
1	cgcatgCAACTGAYCTMYACTGTTATGAcatgcg	4	31 35)
	-X <sub>3</sub>		7.126
HPVApolAmb	X <sub>2</sub> -ccgtcgCAACTGAYCTMYACTGTTATGAcga	289	A (16
	cgg -X <sub>3</sub>	000	31 35)
HPVApolAmb	X <sub>2</sub> -ccacccCAACTGAYCTMYACTGTTATGAgg	<u>290</u>	A (16
	gtgg -X <sub>3</sub>		31 35)
HPVApo1Amb	X <sub>2</sub> -cgatcgCAACTGAYCTMYACTGTTATGAcga	<u>291</u>	A (16
4	tcg -X <sub>3</sub>	000	31 35)
HPVAPO4A	GAAMCAACTGACCTAYWCTGCTAT	292	A (33 52 58)
UDVIN DO AD		<u> </u>	· · · · · · · · · · · · · · · · · · ·
HPVAPO4Amb	X <sub>2</sub> -ccaagcGAAMCAACTGACCTAYWCTGCTATgc	293	A (33
1	ttgg -X <sub>3</sub>		52 58)
HPVAPO4Amb	X <sub>2</sub> -ccaagccGAAMCAACTGACCTAYWCTGCTAT	294	A (33
2	ggcttgg -X <sub>3</sub>	<u></u>	52 58)
HPVAPO4Amb	X2-ccaagcgGAAMCAACTGACCTAYWCTGCTA	295	A (33
3	Tcgcttgg -X₃		52 58)
HPVAPO4Amb	X <sub>2</sub> -ccagcgGAAMCAACTGACCTAYWCTGCTATcg	296	A (33
4	ctgg -X <sub>3</sub>		52 58)
HPVAPO4Amb	X2-cgatcgGAAMCAACTGACCTAYWCTGCTATcg	297	A (33
5	atcg -X <sub>3</sub>		52 58)
HPVCPO4	AAGACATTATTCAGACTC	298	C (18
			45 39)
HPVCPO4Amb	X <sub>2</sub> -ccaagcAAGACATTATTCAGACTCgcttgg	299	C (18
1	-X <sub>3</sub>	l —	45 39)
HPVCPO4Amb	X <sub>2</sub> -cgcatgAAGACATTATTCAGACTCcatgcg	300	C (18
2	-X <sub>3</sub>		45 39)
HPVCPO4Amb	X <sub>2</sub> -cccagcAAGACATTATTCAGACTCgctggg	301	C (18
3	-X <sub>3</sub>		45 39)
HPVCPO4Amb	X <sub>2</sub> -cgatcgAAGACATTATTCAGACTCcgatcg	302	C (18
4	-X <sub>3</sub>		45 39)

Please amend Table 3, beginning on page 22, to add a column containing sequence identifiers (SEQ ID NOs) for the primer sequences, as follows:

Primer name	Sequence	SEQ ID	HPV	nt
		NO	type	
HAe6701PCR2	CCACAGGAGCGACCCAGAAAGTTA	303	16	116
HAe6701PCR1	ACGGTTTGTTGTATTGCTGTTC	304	16	368
HAe6702PCR2	CCACAGGAGCGACCCAGAAA	305	16	116
HAe6702PCR1	GGTTTGTTGTATTGCTGTTC	306	16	368
HAe6703PCR2	CAGAGGAGGATGAAATAGTA	307	16	656
HAe6703PCR1	GCACAACCGAAGCGTAGAGTCACAC	308	16	741
HAe6704PCR2	CAGAGGAGGAGGATGAAATAGA	309	16	656
HAe6704PCR1	GCACAACCGAAGCGTAGAGTCA	310	16	741
H18e6701PCR2	ACGATGAAATAGATGGAGTT	311	18	702

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H18e6701PCR1	CACGGACACAAAGGACAG	312	18	869
H18e6702PCR2	GAAAACGATGAAATAGATGGAG	313	18	698
H18e6702PCR1	ACACCACGGACACAAAGGACAG	314	18	869
H18e6703PCR2	TTCCGGTTGACCTTCTATGT	315	18	651
H18e6703PCR1	GGTCGTCTGAGCTTTCT	316	18	817
H18e6704PCR2	GCAAGACATAGAAATAACCTG	317	18	179
H18e6704PCR1	ACCCAGTGTTAGTTAGTT	318	18	379
H31e6701PCR2	GGAAATACCCTACGATGAAC	319	31	164
H31e6701PCR1	GGACACAACGGTCTTTGACA	320	31	423
H31e6702PCR2	GGAAATACCCTACGATGAACTA	321	31	164
H31e6702PCR1	CTGGACACAACGGTCTTTGACA	322	31	423
H31e6703PCR2	ACTGACCTCCACTGTTATGA	323	31	617
H31e6703PCR1	TATCTACTTGTGTGCTCTGT	324	31	766
H31e6704PCR2	TGACCTCCACTGTTATGAGCAATT	325	31	619
H31e6704PCR1	TGCGAATATCTACTTGTGTGCTCT GT	326	31	766
H31e6705PCR2	ACTGACCTCCACTGTTAT	327	31	617
H31e6705PCR1	CACGATTCCAAATGAGCCCAT	328	31	809
H33e6701PCR2	TATCCTGAACCAACTGACCTAT	329	33	618
H33e6701PCR1	TTGACACATAAACGAACTG	330	33	763
H33e6703PCR2	TCCTGAACCAACTGACCTAT	331	33	620
H33e6703PCR1	CCCATAAGTAGTTGCTGTAT	332	33	807
H33e6702PCR2	GACCTTTGTGTCCTCAAGAA	333	33	431
H33e6702PCR1	AGGTCAGTTGGTTCAGGATA	334	33	618
H35e6701PCR2	ATTACAGCGGAGTGAGGTAT	335	35	217
H35e6701PCR1	GTCTTTGCTTTTCAACTGGA	336	35	442
H35e6702PCR2	TCAGAGGAGGAGGATACTA	337	35	655
H35e6702PCR1	GATTATGCTCTCTGTGAACA	338	35	844
H35e6703PCR2	CCCGAGGCAACTGACCTATA	339	35	610
H35e6703PCR1	GTCAATGTGTGTGCTCTGTA	340	35	770
H52e6701PCR2	TTGTGTGAGGTGCTGGAAGAAT	341	52	144
H52e6701PCR1	CCCTCTCTAATGTTT	342	52	358
H52e6702PCR2	GTGCCTACGCTTTTTATCTA	343	52	296
H52e6702PCR1	GGGGTCTCCAACACTCTGAACA	344	52	507
H58e6701PCR2	TCAGGCGTTGGAGACATC	345	58	157
H58e6701PCR1	AGCAATCGTAAGCACACT	346	58	301
H58e6702PCR2	TCTGTGCATGAAATCGAA	347	58	173
H58e6702PCR1	AGCACACTTTACATACTG	348	58	291
HBe6701PCR2	TACACTGCTGGACAACAT	349	B(11)	514
HBe6701PCR1	TCATCTTCTGAGCTGTCT	350	B(11)	619
HBe6702PCR2	TACACTGCTGGACAACATGCA	351	B(11)	514
HBe6702PCR1	GTCACATCCACAGCAACAGGTCA	352	B(11)	693
HBe6703PCR2	TGACCTGTTGCTGTGGATGTGA	353	B(11)	693
HBe6703PCR1	TACCTGAATCGTCCGCCAT	354	B(11)	832
HCe6701PCR2	CATGCCATAAATGTATAGA	355	C (18	295
		<u> </u>	39 45	
HCe6701PCR1	CACCGCAGGCACCTTATTAA	356	C (18	408
			39 45	
H39e6701PCR2	GCAGACGACCACTACAGCAAA	357	39	210
H39e6701PCR1	ACACCGAGTCCGAGTAATA	<u>358</u>	39	344

H39e6702PCR2	TATTACTCGGACTCGGTGT	359	39	344
H39e6702PCR1	CTTGGGTTTCTCTTCGTGTTA	360	39	558
H39e6703PCR2	GAAATAGATGAACCCGACCA	361	39	703
H39e6703PCR1	GCACACCACGGACACAAA	362	39	886
H45e6701PCR2	AACCATTGAACCCAGCAGAAA	363	45	430
H45e6701PCR1	TCTTTCTTGCCGTGCCTGGTCA	364	45	527
H45e6702PCR2	GAAACCATTGAACCCAGCAGAAAA	365	45	428
H45e6702PCR1	TTGCTATACTTGTGTTTCCCTACG	366	45	558
H45e6703PCR2	GTTGACCTGTTGTGTTACCAGCAAT	367	45	656
H45e6703PCR1	CACCACGGACACACAAAGGACAAG	368	45	868
H45e6704PCR2	CTGTTGACCTGTTGTGTTACGA	369	45	654
H45e6704PCR1	CCACGGACACAAAGGACAAG	370	45	868
H45e6705PCR2	GTTGACCTGTTGTGTTACGA	371	45	656
H45e6705PCR1	ACGGACACAAAGGACAAG	372	45	868
H51e6701PCR2	GGAGGAGGATGAAGTAGATA	373	51	658
H51e6701PCR1	GCCCATTAACATCTGCTGTA	374	51	807
H51e6702PCR2	AGAGGAGGATGAAGTAGATA	375	51	655
H51e6702PCR1	ACGGGCAAACCAGGCTTAGT	376	51	829
H56e6701PCR2	TTGGGGTGCTGGAGACAACATCT	377	56	519
H56e6701PCR1	TTCATCCTCATCCTCTGA	378	56	665
H56e6702PCR2	TGGGGTGCTGGAGACAACATC	379	56	520
H56e6702PCR1	CATCCTCATCCTCATC	380	56	665
H56e6703PCR2	TTGGGGTGCTGGAGACAACAT	381	56	519
H56e6703PCR1	CCACAAACTTACACTCACAACA	382	56	764
H56e6704PCR2	GATTTTCCTTATGCAGTGTG	383	56	279
H56e6704PCR1	GACATCTGTAGCACCTTATT	384	56	410